

Set    Items    Description  
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? E AU=KRI EG, a?

Ref	Items	Index-term
E1	5	AU=KRI EG, A. H.
E2	5	AU=KRI EG, A. M
E3	0	* AU=KRI EG, A?
E4	5	AU=KRI EG, ADAM J
E5	10	AU=KRI EG, ADAM J.
E6	2	AU=KRI EG, ADAM JEREMY
E7	1	AU=KRI EG, ADRI AN
E8	2	AU=KRI EG, ADRI AN H
E9	2	AU=KRI EG, AF
E10	3	AU=KRI EG, AH
E11	1	AU=KRI EG, AJ
E12	17	AU=KRI EG, ALEXANDER

Enter P or PAGE for more  
 ? S E1- E12

5	AU=KRI EG, A. H.	
5	AU=KRI EG, A. M	
0	AU=KRI EG, A?	
5	AU=KRI EG, ADAM J	
10	AU=KRI EG, ADAM J.	
2	AU=KRI EG, ADAM JEREMY	
1	AU=KRI EG, ADRI AN	
2	AU=KRI EG, ADRI AN H	
2	AU=KRI EG, AF	
3	AU=KRI EG, AH	
1	AU=KRI EG, AJ	
17	AU=KRI EG, ALEXANDER	
S1	53	E1- E12

? S S1 AND AACGTT

53	S1	
254	AACGTT	
S2	0	S1 AND AACGTT

? E AU=KLI NMAN, D?

Ref	Items	Index-term
E1	76	AU=KLI NMAN, D. M
E2	3	AU=KLI NMAN, D. M
E3	0	* AU=KLI NMAN, D?
E4	1	AU=KLI NMAN, DEBRA G
E5	1	AU=KLI NMAN, DENI S
E6	29	AU=KLI NMAN, DENNI S
E7	60	AU=KLI NMAN, DENNI S M
E8	200	AU=KLI NMAN, DENNI S M
E9	1	AU=KLI NMAN, DENNI S M
E10	1	AU=KLI NMAN, DENNI S MARC
E11	1	AU=KLI NMAN, DENNI S R
E12	119	AU=KLI NMAN, DM

Enter P or PAGE for more  
 ? S E1- E12

76	AU=KLI NMAN, D. M
3	AU=KLI NMAN, D. M
0	AU=KLI NMAN, D?
1	AU=KLI NMAN, DEBRA G
1	AU=KLI NMAN, DENI S
29	AU=KLI NMAN, DENNI S
60	AU=KLI NMAN, DENNI S M

10789353search.txt

200 AU=KLI NMAN, DENNIS M  
1 AU=KLI NMAN, DENNIS M  
1 AU=KLI NMAN, DENNIS MARC  
1 AU=KLI NMAN, DENNIS R.  
119 AU=KLI NMAN, DM  
S3 491 E1-E12  
? S S3 AND (AACGTT)  
491 S3  
254 AACGTT  
S4 0 S3 AND (AACGTT)  
? S S3 AND CG  
491 S3  
80853 CG  
S5 0 S3 AND CG  
? S S3 AND CpG  
491 S3  
138112 CPG  
S6 227 S3 AND CPG  
? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S7 127 RD (unique items)

? t s7/3, k/1-4

>>>KWC option is not available in file(s): 399

7/3, K/1 (Item 1 from file: 6)  
DI ALCG(R) File 6: NTIS  
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2278440 NTIS Accession Number: ADA417843/XAB  
Rapid Induction of Protective Immunity Against Bioterror Agents Using  
CPG-Based Oligonucleotides

(Final addendum rept. 1 Aug 2001-1 Aug 2003)

Klinman, D. M

Department of Health and Human Services, Washington, DC.

Corp. Source Codes: 068119000; 439199

Sep 2003 56p

Languages: English

Journal Announcement: USGRDR0405

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Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A05/ MF A01

Rapid Induction of Protective Immunity Against Bioterror Agents Using  
CPG-Based Oligonucleotides

Klinman, D. M

This research project examines the ability of synthetic oligonucleotides (ODN) containing immunostimulatory 'CpG motifs' to trigger the innate immune system thereby improving the host's ability to survive infection by bioterror agents. Additional studies examining the ability of these CpG ODN to act as adjuvants when co-administered with vaccines being developed to prevent infection by bioterror pathogens are also being pursued. Our initial results showed that CpG ODN protected mice against a variety of bacterial and viral pathogens, including Anthrax, Ebola, Listeria, and Tularemia. When used as vaccine adjuvants, these CpG ODN significantly boost antigen-specific IgG and type 1 cytokine production in both murine and...

... CpG ODN could protect against pathogen challenge in non-human primates and (3) that these CpG ODN could promote the induction of antigen-specific immune responses in non-human primates. Results indicate that CpG ODN need to contain multiple different CpG motifs to stimulate PBMC from diverse human donors. These ODN were found to protect rhesus...

... co-administered vaccines (including AVA, rPA, and HKLV) in macaques. Serum transfer studies indicate that CpG ODN increase the magnitude and rapidity of the protective immune response elicited by vaccines against

Identifiers: Cdn(Aigonucleotides); Cpg oligonucleotide; Immunoprotection; NTI SDODXA

7/3, K/2 (Item 2 from file: 6)  
DI ALCG(R) File 6: NTIS  
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2218973 NTIS Accession Number: ADA394767/XAB  
Rapid Induction of Protective Immunity Against Bioterror Agents Using CPG-Based Oligonucleotides  
(Final rept. 1 Aug 1998-1 Aug 2001)

Kiinnan, D. M

Department of Health and Human Services, Washington, DC  
Corp. Source Codes: 068119000; 439199

Sep 2001 125p

Languages: English

Journal Announcement: USGRDR0202

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NTIS Prices: PC A07/ MF A02

Rapid Induction of Protective Immunity Against Bioterror Agents Using CPG-Based Oligonucleotides  
Kiinnan, D. M

This research project examines the ability of synthetic oligonucleotides (ODN) containing immunostimulatory 'CpG motifs' to trigger the innate immune system, thereby improving the host's ability to survive infection by bioterror agents. Additional studies examining the ability of these CpG ODN to act as adjuvants when co-administered with vaccines being developed to prevent infection by bioterror pathogens are also being pursued. Our results indicate that CpG ODN provide protection in mice against a variety of bacterial and viral pathogens, including *Antibrax*, *Ebola*, *Listeria*, and *Tularemia*. A single injection of CpG ODN provides protection for up to two weeks. The duration of protection can be extended by repeated ODN injections, or by administering the CpG ODN encapsulated in cationic stealth liposomes. When used as vaccine adjuvants, these CpG ODN significantly boost antigen-specific IgG and type 1 cytokine production in both murine and non-human primate models. Two types of CpG ODN were identified that stimulated cells of the human immune system K type ODN induced...

7/3, K/3 (Item 3 from file: 6)  
DI ALCG(R) File 6: NTIS  
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2200937 NTIS Accession Number: ADA390846/XAB  
Rapid Induction of Protective Immunity Against Bioterror Agents Using  
Page 3

CPG-Based Oligonucleotides

(Annual rept. 1 Aug 1998-1 Aug 1999)

Klinman, D. M

Department of Health and Human Services, Washington, DC.

Corp. Source Codes: 068119000; 396040

Sep 1999 41p

Languages: English

Journal Announcement: USGRDR0120

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NTIS Prices: PC A04/ MF A01

Rapid Induction of Protective Immunity Against Bioterror Agents Using CPG-Based Oligonucleotides

Klinman, D. M

This research project examines the ability of synthetic oligonucleotides (ODN) containing immunostimulatory CpG motifs to trigger the innate immune system thereby improving the host's ability to survive infection by biowarfare agents. Our studies indicate that synthetic ODN expressing CpG motifs protect mice from a variety of bacterial and viral pathogens, including Ebola, L. monocytogenes...

... period immediately following infection. Protection persisted for approximately 2 weeks after a single dose of CpG ODN. The duration of protection could be prolonged by repeatedly re-administering the ODN every 2 weeks. We then examined whether CpG ODN would be active on human immune cells. We identified one category of CpG motif that stimulated cell proliferation and the production of IgM and a second category of CpG motif that stimulated the secretion of IFN $\gamma$  in vitro. These findings are being actively pursued towards the goal of identifying CpG ODN that will be effective in preventing.

7/3, K/4 (Item 1 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
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0003910742 IP ACCESSION NO: 11068372  
Inductive and suppressive networks regulate TLR9-dependent gene expression in vivo

Klaschik, S; Tross, D; Klinman, DM

Laboratory of Experimental Immunology, Cancer and Inflammation Program, National Cancer Institute, National Institutes of Health, Building 567, Room 205, Frederick, MD 21702, USA, [mailto:[klinmand@mail.nih.gov](mailto:klinmand@mail.nih.gov)]

Journal of Leukocyte Biology, v 85, n 5, p 788-795, May 2009  
PUBLICATION DATE: 2009

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0741-5400

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Genetics Abstracts; Industrial & Applied Microbiology Abstracts (Microbiology A); Immunology Abstracts

Klaschik, S; Tross, D; Klinman, DM

ABSTRACT:

Bacterial DNA expressing unmethylated CpG motifs binds to TLR9, thereby stimulating a broadly protective, innate immune response. Although CpG-mediated signal transduction has been studied, the scope of TLR9-dependent gene expression is incompletely understood. To resolve these issues, mice were treated with immunostimulatory CpG oligonucleotides (ODN) and splenic mRNA levels monitored from 30 min through 3 days by microarray...

...networks responsible for TLR9-mediated gene expression. Current results are the first to establish that CpG-induced stimulation of the innate immune system proceeds in multiple waves over time, and gene...

...mice supports the conclusion that the regulatory networks identified by our bioinformatic analysis accurately identified CpG ODN-driven gene-gene interactions *in vivo*. Equally important, this work identifies the counter-regulatory mechanisms embedded within the signaling cascade that suppresses the proinflammatory response triggered *in vivo* by CpG DNA stimulation. Identifying these network interactions provides novel and global insights into the regulation of...

DESCRIPTIONS: Bioinformatics; CpG islands; Data processing; Gene expression; Gene regulation; Immune response; Immunostimulation; Inflammation; Leukocytes; Oligonucleotides; Signal transduction...  
? eau=stei nberg, al?

Ref	Items	Index-term
E1	14	AU=STEINBERG, AG
E2	1	AU=STEINBERG, AL
E3	0	* AU=STEINBERG, AL?
E4	8	AU=STEINBERG, ALAN
E5	1	AU=STEINBERG, ALAN B.
E6	3	AU=STEINBERG, ALAN BRUCE
E7	1	AU=STEINBERG, ALAN GILBERT ROBERT
E8	1	AU=STEINBERG, ALAN J
E9	1	AU=STEINBERG, ALAN L.
E10	2	AU=STEINBERG, ALAN M
E11	10	AU=STEINBERG, ALAN M
E12	1	AU=STEINBERG, ALAN MARTIN

Enter P or PAGE for more

? s e1-e12

14	AU=STEINBERG, AG
1	AU=STEINBERG, AL
0	* AU=STEINBERG, AL?
8	AU=STEINBERG, ALAN
1	AU=STEINBERG, ALAN B.
3	AU=STEINBERG, ALAN BRUCE
1	AU=STEINBERG, ALAN GILBERT ROBERT
1	AU=STEINBERG, ALAN J
1	AU=STEINBERG, ALAN L.
2	AU=STEINBERG, ALAN M
10	AU=STEINBERG, ALAN M
1	AU=STEINBERG, ALAN MARTIN

S8 43 E1- E12

? s s8 and aacgtt

43	S8
254	AACGTT

S9 0 S8 AND AACGTT

? s aacgtt and oligo?

254	AACGTT
2406792	OLIGO?

S10 174 AACGTT AND OLIGO?

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S11 38 RD (unique items)

? t s11/3, k/1-11

>>>KWC option is not available in file(s): 399

11/3, K/1 (Item 1 from file: 5)

DIalog(R) File 5: Biostatistics Previews(R)

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0020364532 BIOSIS NO.: 200800411471

The expression profile of TLR9 mRNA and CpG ODNs immunostimulatory actions in the teleost gilthead seabream points to a major role of lymphocytes

AUTHOR: Cuesta A (Reprint); Esteban MA; Mesequer J

AUTHOR ADDRESS: Univ Murcia, Fac Biol, Dept Cell Biol and Histol, Fish Innate Immune Syst Grp, E-30100 Murcia, Spain\*\*Spain

AUTHOR E-MAIL ADDRESS: cuesta.alberto@unim.es

JOURNAL: Cellular and Molecular Life Sciences 65 (13): p2091-2104 JUL 2008 2008

ITEM IDENTIFIER: doi:10.1007/s00018-008-8146-7

ISSN: 1420-682X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The potential effects of synthetic unmethylated oligodeoxynucleotides (ODN) containing CpG motifs, mimicking bacterial DNA, has never been evaluated on the immune response...

...cell-source. To conclude, ODNs containing GACGTT, GTCGTT (optimal for mouse and human, respectively) or AACGTT motifs are the most potent inducers of seabream immunity, whilst the involvement of TLR9 is...

DESCRIPTIONS:

CHEMICALS & BIOCHEMICALS: ...oligodeoxynucleotide-

11/3, K/2 (Item 2 from file: 5)

DIalog(R) File 5: Biostatistics Previews(R)

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17222739 BIOSIS NO.: 200300181458

CpG oligodeoxynucleotides activate grass carp (Ctenopharyngodon idellus) macrophages.

AUTHOR: Meng Zhen; Shao Jianzhong (Reprint); Xiang Lixin

AUTHOR ADDRESS: College of Life Sciences, Zhejiang University, Hangzhou, 310012, China\*\*China

AUTHOR E-MAIL ADDRESS: lscsiaoj@zjhu.edu.cn

JOURNAL: Developmental and Comparative Immunology 27 (4): p313-321 April 2003 2003

FORMAT: print

ISSN: 0145-305X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

CpG oligodeoxynucleotides activate grass carp (Ctenopharyngodon idellus) macrophages.

... ABSTRACT: and natural killer cells can be stimulated directly or indirectly by the bacterial DNA and oligodeoxynucleotides (ODN) containing the CpG motifs (CpG DNA). Using head kidney macrophages of grass carp (Ctenopharyngodon)...

... ODN-1826 (GACGTT) and -2006 (GTCGTT) for the mice and humans cells, the ODN-1670 (AACGTT) used in Atlantic salmon, the ODN-D containing two repeats motif of those in 1670...

DESCRIPTIONS:

CHEMICALS & BIOCHEMICALS: CpG oligodeoxynucleotides- - - .

... oligodeoxynucleotides- - -

11/3, K/3 (Item 3 from file: 5)  
DIALCG(R) File 5: Biosis Previews(R)  
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16447089 BIOSIS NO.: 200200040600

Induction of interleukin-6 and interleukin-12 in bovine B lymphocytes, monocytes, and macrophages by a CpG oligodeoxynucleotide (ODN 2059) containing the GTCGTT motif

AUTHOR: Zhang Yan; Shoda Lisl K M Brayton Kelly A; Estes D Mark; Palmer Guy H; Brown Wendy C (Reprint)

AUTHOR ADDRESS: Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA, 99164-7040, USA\*\* USA

JOURNAL: Journal of Interferon and Cytokine Research 21 (10): p871-881

October, 2001

MEDIUM: print

ISSN: 1079-9907

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

... interleukin-6 and interleukin-12 in bovine B lymphocytes, monocytes, and macrophages by a CpG oligodeoxynucleotide (ODN 2059) containing the GTCGTT motif

ABSTRACT: Bacterial DNA and synthetic oligodeoxynucleotides (ODN) that contain unmethylated CpG dinucleotides flanked by certain bases (CpG ODN) have been shown...

... B cell proliferation at a lower concentration (10  $\mu$ M) when compared with CpG ODN containing AACGTT or GACGTT motifs active for murine leukocytes. Furthermore, ODN 2059 induced interleukin-6 (IL-6...

DESCRIPTIONS:

CHEMICALS & BIOCHEMICALS: CpG oligodeoxynucleotide- - -

11/3, K/4 (Item 4 from file: 5)  
DIALCG(R) File 5: Biosis Previews(R)  
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16222243 BIOSIS NO.: 200100394082

Immunoactivity CpG modified plasmid DNA enhances IL-12, TNF-alpha, and NO production by bovine macrophages

AUTHOR: Shoda Lisl K M Kegerreis Kimberley A; Suarez Carlos E; Mwangi Wai Thaka; Knowles Donald P; Brown Wendy C (Reprint)

AUTHOR ADDRESS: Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA, 99164-7040, USA\*\* USA

JOURNAL: Journal of Leukocyte Biology 70 (1): p103-112 July, 2001 2001

MEDI UM print

ISSN: 0741-5400

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

... ABSTRACT: cells. In mice, modification of immunostimulatory sequences (ISSs), including CpG motifs, in pDNA vectors or oligodeoxynucleotides can increase or decrease their adjuvant properties. ISSs that stimulate optimal responses reportedly differ for murine and human leukocytes. We have previously characterized the mitogenic properties of oligodeoxynucleotides containing one AACGTT motif for bovine B lymphocytes. We now define cytokine responses by macrophages stimulated with pDNA engineered to contain an ISS comprising two AACGTT motifs. Macrophages activated with CpG modified pDNA secreted significantly more interleukin-12, tumor necrosis factor...

... modified pDNA that contained nucleotides scrambled to remove CpG motifs. Engineered CpG pDNA or CpG oligodeoxynucleotides should be useful as vaccines or adjuvants to promote the enhanced type 1 responses important...

11/3, K/5 (Item 5 from file: 5)  
DI ALCG(R) File 5: Biosis Previews(R)  
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15665643 BIOSIS NO.: 200000383956

Syntetic oligodeoxynucleotides inhibit IgE induction in human lymphocytes

AUTHOR: Fujieda Shigeru (Reprint); Iho Sumiko; Kimura Yuchi; Yamamoto Hiroyuki; Igawa Hideki; Saito Hirotoshi

AUTHOR ADDRESS: Department of Otorhinolaryngology, Fukui Medical University, Shimoizuki, Matsuoka, Yoshida, Fukui, 910-1193, Japan\*\* Japan

JOURNAL: American Journal of Respiratory and Critical Care Medicine 162 (1): p232-239 July, 2000 2000

MEDI UM print

ISSN: 1073-449X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Syntetic oligodeoxynucleotides inhibit IgE induction in human lymphocytes

ABSTRACT: Syntetic oligodeoxynucleotides (ODNs) containing unmethylated CpG motifs have the capacity to stimulate T-helper (Th) 1-type...

... the MPB-70 of *Mycobacterium bovis* *Bacillus Calmette-Guerin*. Two ODNs, containing CGT-ACG or AACGTT inhibited IgE production by human PBMC. When other oligonucleotides were substituted in a portion of the sequence of the core or flanking oligonucleotides in the ODN containing CGTACG, ODNs containing NACGTTCG or A/CTCGTTCG sequences specifically inhibited IgE...

DESCRIPTIONS:

CHEMICALS & BIOCHEMICALS: ... syntetic oligodeoxynucleotide

11/3, K/6 (Item 6 from file: 5)  
DI ALCG(R) File 5: Biosis Previews(R)  
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Page 8

15386572 BIOSIS NO : 200000104885

Modulation of host immune responses by protozoal DNA

AUTHOR: Brown Wendy C (Reprint); Suarez Carlos E; Shoda Lisa KM; Estes D Mark

AUTHOR ADDRESS: Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA, 99164-7040, USA\*\* USA

JOURNAL: Veterinary Immunology and Immunopathology 72 (1-2): p87-94 Dec. 15, 1999

MEDIUM: print

ISSN: 0165-2427

DOCUMENT TYPE: Article; Literature Review

RECORD TYPE: Abstract

LANGUAGE: English

... ABSTRACT: murine B cells were identified in an 11 kb fragment of B. bovis DNA. An oligodeoxyribonucleotide containing one of these (AACGTT), located in the rhoptry associated protein-1 (rap-1) open reading frame, stimulated B cell...

11/3, K7 (Item 7 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)

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15331378 BIOSIS NO : 200000049691

Influence of backbone chemistry on immune activation by synthetic oligonucleotides

AUTHOR: Pisetsky David S (Reprint); Reich Charles F III

AUTHOR ADDRESS: VA Medical Center, 508 Fulton St., Durham NC, USA\*\* USA

JOURNAL: Biochemical Pharmacology 58 (12): p1981-1988 Dec. 15, 1999

MEDIUM: print

ISSN: 0006-2952

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Influence of backbone chemistry on immune activation by synthetic oligonucleotides

... ABSTRACT: of backbone structure on these activities, we tested a series of synthetic phosphodiester and phosphorothioate oligonucleotides in *in vitro* cultures of murine spleen cells. These compounds were 30 bases long and consisted of either a single base or an immunostimulatory sequence (AACGTT) flanked on 5' and 3' ends by 12 nucleotides of each base. Cell activation was...

... and interleukin-12 was used as a measure of cytokine stimulation. In these assays, phosphorothioate oligonucleotides induced much higher levels of proliferation, CD69 expression, and cytokine production than the comparable phosphodiester...

... production was greatest with compounds with dA and dT flanks.

Furthermore, while single base dG oligonucleotides stimulated proliferation as both phosphodiesters and phosphorothioates, they failed to stimulate cytokine production. Together, these findings indicate that base sequence as well as backbone chemistry influence immune activation by synthetic oligonucleotides, with the effects varying among responses. While suggesting differences in the structure-function relationships of...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...synthetic oligonucleotides

11/3, K/8 (Item 8 from file: 5)  
DI ALCG(R) File 5: Biosis Previews(R)  
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15169085 BIOSIS NO.: 199900428745  
The effect of CpG sequences on the B cell response to a viral glycoprotein  
encoded by a plasmid vector  
AUTHOR: Pasquini S; Deng H; Reddy S T; Giles-Davis W; Ertl H C J (Reprint)  
AUTHOR ADDRESS: Wistar Institute, 3601 Spruce Street, Philadelphia, PA,  
19104, USA\*\* USA  
JOURNAL: Gene Therapy 6 (8): p1448-1455 Aug., 1999 1999  
MEDIUM: print  
ISSN: 0969-7128  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

... ABSTRACT: the transgene product in mice. The antibody response could be  
rescued by concomitant injection of oligonucleotides carrying  
immunostimulatory sequences. The B cell response to two plasmid vectors,  
both expressing the same viral glycoprotein but containing a different  
content of the highly stimulatory AACGTT motif, was compared.  
Comparable B cell responses were induced to the two constructs given at  
...

11/3, K/9 (Item 9 from file: 5)  
DI ALCG(R) File 5: Biosis Previews(R)  
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14989425 BIOSIS NO.: 199900249085  
Mammalian granulocyte-macrophage colony-stimulating factor and some CpG  
motifs have an effect on the immunogenicity of DNA and subunit vaccines  
in fish  
AUTHOR: Kanellos T S; Sylvester I D; Butler V L; Ambal A G; Partidos C D;  
Hamblin A S; Russell P H (Reprint)  
AUTHOR ADDRESS: Department of Pathology and Infectious Diseases, Royal  
Veterinary College, Royal College Street, London, NW 0TY, UK\*\* UK  
JOURNAL: Immunology 96 (4): p507-510 April, 1999 1999  
MEDIUM: print  
ISSN: 0019-2805  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: A eukaryotic plasmid DNA carrying the AACGTT CpG motif in  
its ampR gene is a 'danger' signal for mice and caused an...  
... no effect on antibody responses to beta-gal in either fish or mice. A  
synthetic oligonucleotide, which contains the GACGTT motif,  
potentiated antibody responses to co-administered beta-gal protein in...

11/3, K/10 (Item 10 from file: 5)  
DI ALCG(R) File 5: Biosis Previews(R)  
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14717222 BIOSIS NO.: 199800511469  
DNA and a CpG oligonucleotide derived from Babesia bovis are  
mitogenic for bovine B cells  
AUTHOR: Brown Wendy C (Reprint); Estes D Mark; Chantler Sue Ellen;  
Kegresse Kimberly A; Suarez Carlos E

10789353search.txt

AUTHOR ADDRESS: Dep. Vet. Microbiol. Pathol., Washington State Univ., Pullman, WA 99164-7040, USA\*\* USA

JOURNAL: Infection and Immunity 66 (11): p5423-5432 Nov., 1998 1998

MEDIUM: print

ISSN: 0019-9567

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

DNA and a CpG oligonucleotide derived from Babesia bovis are mitogenic for bovine B cells

... ABSTRACT: and several CpG hexameric sequences with known activity for murine B cells were identified. An oligodeoxynucleotide containing one of these ISS (AACGTT), which is present within the rhotrypty-associated protein-1 (rap-1) open reading frame, was...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: CpG oligonucleotide;

11/3, K/11 (Item 11 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)

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14060235 BIOSIS NO: 199799694295

Immune stimulation-a class effect of phosphorothioate oligodeoxynucleotides in rodents

AUTHOR: Monteith David K (Reprint); Henry Scott P; Howard Randy B; Flournoy Shin; Levin Arthur A; Bennett C Frank; Crooke Stanley T

AUTHOR ADDRESS: Isis Pharmaceuticals, 2292 Faraday Ave., Carlsbad, CA 92008, USA\*\* USA

JOURNAL: Anti-Cancer Drug Design 12 (5): p421-432 1997 1997

ISSN: 0266-9536

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Immune stimulation-a class effect of phosphorothioate oligodeoxynucleotides in rodents

ABSTRACT: Treatment of rodents with phosphorothioate oligodeoxynucleotides induces a form of immune stimulation characterized by splenomegaly, lymphoid hyperplasia, hypergammaglobulinemia and mixed mononuclear...

... a review of historical data and specific in vivo and in vitro studies.

All phosphorothioate oligodeoxynucleotides evaluated induced splenomegaly and B-lymphocyte proliferation. Splenomegaly and B-lymphocyte proliferation increased with dose or concentration of oligodeoxynucleotide. Splenomegaly appeared to occur, at least in part, as a result of stimulation of B...

... proliferation. There were differences with respect to degree or potency of immune stimulation by different oligodeoxynucleotides. The rank order potencies for B-lymphocyte proliferation in vitro and splenomegaly correlated well for the oligodeoxynucleotides tested. Particular oligodeoxynucleotide sequence motifs or palindromes have been demonstrated to affect in vitro cell proliferation. Inclusion of a 5'-AACGTT-3' palindrome in a phosphorothioate oligodeoxynucleotide sequence significantly enhanced the potency. While inclusion of this palindrome or a CpG motif alone...

... palindromes and motifs were clearly not the sole factor required for

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immune stimulation. Several phosphorothioate oligodeoxynucleotides that did not contain a CpG motif still induced immune stimulation in mice. The immune stimulation induced by phosphorothioate oligodeoxynucleotides was an effect on this class of compounds to which rodents are acutely sensitive.

DESCRIPTIONS:

CHEMICALS & BIOCHEMICALS:

MISCELLANEOUS TERMS: . . . PHOSPHOROTHIOATE OLIGOODEOXYNUCLEOTIDES;

CONCEPT CODES:

? ds

Set	Items	Description
S1	53	E1- E12
S2	0	S1 AND AACGTT
S3	491	E1- E12
S4	0	S3 AND ( AACGTT)
S5	0	S3 AND CG
S6	227	S3 AND CPG
S7	127	RD (unique items)
S8	43	E1- E12
S9	0	S8 AND AACGTT
S10	174	AACGTT AND OLIG?
S11	38	RD (unique items)